

# Receiving Report

Date:

13/6/28

Batch No:

M126160

Supplier:

T4708611

Dart P/O:

20295

Packing Slip: Yes ☒ No ☐

Invoice: Yes ☐ No ☒

Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐

Waybill Attached: Yes ☐ No ☒

Shipment Complete: Yes ☒ No ☒

QC6 Inspection ☒

Work Order ☐

N/A ☐

N/A ☒

N/A ☐

N/A ☐

N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M6061T6S-080		336	0	1	336	
M6061T6S-040		384	0	0	384	

Initials of receiver (if shipment OK) Level 12

C

Production/Admin:

Date

Received/Costing

Initial

13/6/28  
[Signature]

Location

\_\_\_\_\_

# Purchase Order Receipt Listing

Friday, June 28, 2013 9:10:04 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO20295 Receipt Dates from 6/28/2013 to 6/28/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20295	1		M6061T6B0.500X02. f 000		6/28/2013	6/28/2013	12.0000	\$2.41	0.0000	0	\$28.94
CAD	No		6061-T6 Bar .500 x 2.00	f	12.0000	DESJ02		\$28.94	0.0000	0	
			M126160								
	2		M6061T6B0.500X02. f 500	f	6/28/2013	6/28/2013	12.0000	\$2.89	0.0000	0	\$34.72
	No		6061-T6 Bar .500 x 2.50	f	12.0000	DESJ02		\$34.72	0.0000	0	
			M126160								
	3		M6061T6B1.000X02. f 000	f	6/28/2013	6/28/2013	24.0000	\$4.44	0.0000	0	\$106.48
	No		6061-T6 Bar 1.00 x 2.00	f	24.0000	DESJ02		\$106.48	0.0000	0	
			M126160								
	4		M6061T6B1.000X04. f 000	f	6/28/2013	6/28/2013	24.0000	\$8.63	0.0000	0	\$207.17
	No		6061-T6 Bar 1.00 x 4.00	f	24.0000	DESJ02		\$207.17	0.0000	0	
			M126160								
	5		M6061T6B1.000X06. f 000	f	6/28/2013	6/28/2013	12.0000	\$13.91	0.0000	0	\$166.90
	No		6061T6 BAR 1.00 X 6.00	f	12.0000	DESJ02		\$166.90	0.0000	0	
			M126160								
	6		M6061T6B1.250X04. f 500	f	6/28/2013	6/28/2013	24.0000	\$13.44	0.0000	0	\$322.53
	No		6061-T6 Bar 1.25 X 4.50	f	24.0000	DESJ02		\$322.53	0.0000	0	
			M126160								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor-ID\Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20295	7		M6061T6B2.000X04. f 500		6/28/2013	6/28/2013	12.0000	\$24.80	0.0000	0	\$297.62
CAD	No		6061T6 Bar 2.00 x 4.500	f	12.0000	DES102		\$297.62	0.0000	0	
			M126160								
Total Received Quantity:											120.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,164.36
Total Balance Due Quantity:											0.0000

27

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 829158  
Ship Date 26Jun13 at 7:52 From PFW  
Probill  
Via VIM TRANSER TRUCK  
FOB CONCORD  
Frnt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

Ship To: (1)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-580848- 1 Your PO # 20295  
ALUMINUM FLAT BAR 6061-T6511  
.50" x 2.00" X 144.0000"

Heat Number 201311221  
Tag No 193047

Quantity 12 FT ✓

PCS 1

Wt LBS 14

MTR

2) Our Order PEC-580848- 2 Your PO # 20295  
ALUMINUM FLAT BAR 6061-T6511  
.50" x 2.50" X 144.0000"

Heat Number 21288872  
Tag No 193048

Quantity 12 FT ✓

PCS 1

Wt LBS 17

MTR

3) Our Order PEC-580848- 3 Your PO # 20295  
ALUMINUM FLAT BAR 6061-T6511  
1.00" x 2.00" X 144.0000"

Heat Number 201305462  
Tag No 193049

Quantity 24 FT ✓

PCS 2

Wt LBS 57

MTR

4) Our Order PEC-580848- 4 Your PO # 20295  
ALUMINUM FLAT BAR 6061-T6511  
1.00" x 4.00" X 144.0000"

Heat Number 20028  
Tag No 193050

Quantity 24 FT ✓

PCS 2

Wt LBS 114

MTR

5) Our Order PEC-580848- 5 Your PO # 20295  
ALUMINUM FLAT BAR 6061-T6511  
1.00" x 6.00" X 144.0000"

Heat Number 201306967  
Tag No 193051

Quantity 12 FT ✓

PCS 1

Wt LBS 85

MTR

Page: 1 ....Continued

*Handwritten signatures and initials*

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

## B I L L O F L A D I N G

No: PEC 829158

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 26Jun13 at 7:52 From PFW  
 Probill  
 Via VIM TRANSER TRUCK  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-580848- 6 Your PO # 20295  
 Part # OFFERING Rel #

ALUMINUM FLAT BAR 6061-T6511  
 1.250" x 5.00" X 144.0000"

Heat Number Tag No  
 201310704 193052

Quantity  
 24 FT

PCS  
 2

MTR

Wt LBS  
 175

7) Our Order PEC-580848- 7 Your PO # 20295

ALUMINUM FLAT BAR 6061-T6511  
 2.00" x 5.00" X 144.0000"

Heat Number Tag No  
 Z00657003 193053

Quantity  
 12 FT

PCS  
 1

MTR

Wt LBS  
 140

TOTAL: Tags 7 PCS 10 LBS 602

Heat Number  
 20028  
 201305462  
 201306967  
 201310704  
 201311221  
 21288872  
 Z00657003

\*\*\* Chemical Analysis \*\*\*

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING. ✓

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL ITEMS (1,2,3,4,5,6,7) 1 BDL G.W. 622 LBS

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

# B I L L O F L A D I N G

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 829158  
 Ship Date 26Jun13 at 7:52 From PFW  
 Probill  
 Via VIM TRANSER TRUCK  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

# B I L L O F L A D I N G

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
 CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*  
 \*\*\*\* TEL. 800-926-2600 \*\*\*\*  
 \*\*\*\*\*  
 \* WE STOCK STAINLESS STEEL \*  
 \* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*  
 \*\*\*\*\*  
 \*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
 ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511  
50" x 2.00" x 144.0000"  
PART NO.

PO/Rel 20295

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by: *[Signature]*

BL PEC-829158-001

26Jun13  
Pg 1/1

## Certificate of Mill Test Results



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
177642	3

**MANIFEST NUMBER** 191963  
**DATE OF SHIPMENT** 6/3/2013  
**SALES PERSON** David Schroeder

**TO** ThyssenKrupp Materials NA  
**SHIP TO** ThyssenKrupp Materials NA, Toronto  
**CUSTOMER PO** PEC-248822  
**CUSTOMER PART NUMBER** RB0096  
**DESCRIPTION** SCRB .500x2.000

**CERTIFICATION**  
ASTM-B221-12a StencilCont  
SPECIFICATION  
AMS-QQA-200/8 - 1997

*[Signature]*

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511  
also meet the requirements of 6061-T6

#### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
6	201311221	5/31/13	min 42.60 max 47.20	min 39.10 max 44.50	min 11.20 max 17.35

#### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
2BU147	6061	0.61	0.12	0.20	0.03	0.85	0.06	0.01	0.01	98.11	0.05	0.15
2BU294	6061	0.63	0.11	0.20	0.03	0.85	0.06	0.01	0.01	98.10	0.05	0.15

Each Total

*[Signature]*

Print Date: 6/3/2013

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
50" x 2.50" x 144.0000"

PART NO.

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*

Certificate of Mill Test Results

BL PEC-829158-002

26Jun13  
Pg 1/3

**sapa**

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5C6

## Certified Inspection Report

Sales Order Number	Line No.	Customer PO	Cert Number	Page
1100598155	4	PEC-247872-4	SAPA757768	1 of 3
			Cert Creation Date	Cert Print Date
			02-MAY-13	02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
2397	LB	02-MAY-13	Extruded Rectangular Bar 0.500 TK x 2.500 W READ	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASMESE221 REV 09 UNSA99061 REV
424721		Item No.	144.000 IN LN FIN M-METL W/F 1.57 F04 CS 2.5 6061/T6511	
Delivery Id		Item No. Rev	Marking CONTINUOUS	
4422621				
Customer Part No.				
5X2.5				

Applicable Specifications, Revisions and Exemptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

*William T. Martin, III*

William Martin, III

Tech/Quality Manager

02-MAY-13

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Package Number	Cert Number	Quantity	UOM	Gross Weight	Net Weight
G12-PKG1839570	21288872	40	PCS	711	705
G12-PKG1928652	21391318	32	PCS	570	564
G12-PKG1928672	21391318	30	PCS	535	530
G12-PKG1928672					
G12-PKG1934198	21391829	34	PCS	605	599

Composition Limits



**PO/Rel 20295**

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

2

## BI PEC-820158-007

26Jun13  
Pg 2/3

**Sapa Industrial Extrusions  
53 POTTSVILLE STREET**

# Certified Inspection Report

Cert Number	SABN757768
Cert Creation Date	02-MAY-13
Page	Page 2 of 3
Cert Print Date	02-MAY-13

Jan 28 1928

Heat/Case	Si	Fe	C	Mn	P	S	Al	Cr	Ni	Mo	Cu	Co	W	Nb	Bi	Other Total
30001735	0.62	0.27	0.23	0.04	0.02	0.02	—	0.06	0.02	—	—	—	—	—	—	—
Heat/Case	Al	P	Cu	Mn	Mo	Co	W	Cr	Zn	—	—	—	—	—	—	—
50300335	0.63	0.27	0.22	0.03	0.01	0.05	—	0.05	0.03	—	—	—	—	—	—	—
Heat/Case	Al	Fe	Cu	Mn	Mo	Co	W	Cr	Zn	—	—	—	—	—	—	—
5031246	0.66	0.24	0.22	0.03	0.01	0.05	—	0.05	0.02	—	—	—	—	—	—	—
Heat/Case	Al	Fe	Cu	Mn	Mo	Co	W	Cr	Zn	—	—	—	—	—	—	—

	Part Type	UTS - L	TYS - L	EL 40-Long
	LGM	KSI	KSI	PCT
	Part Name	QTN#	MAT Value	MIN VALUE
	# of Parts			MAX VALUE
76511	2128872	4	44.4	46.3
			41.6	43.9
				18.2
				19.2
	Part Type	UTS - L	TYS - L	EL 40-Long
	LGM	KSI	KSI	PCT
	Part Name	QTN#	MAT Value	MIN VALUE
	# of Parts			MAX VALUE
16511	2139118	4	44.3	46.0
			41.4	43.4
				17.4
				18.5

# THYSSENKRUPP MATERIALS NA

PO/Rel 20295

Certificate of Mill Test Results

BL PBC-829158-002

DART AEROSPACE  
ALUMINUM PLAT BAR 6061-T6511  
50" x 2.50" x 144.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*

26Jun13  
Pg 3/3

**sapa**

Sapa Industrial Extrusions  
53 FORTSMITH STREET  
CRESSONA, PA  
17929-0187

## Certified Inspection Report

Sales Order Number	Line No.	Customer P/O
1100598155	4	PBC-247872-4

Cert Number	Page
SAPA757768	3 of 3
Cert Creation Date	Cert Print Date
02-MAY-13	02-MAY-13

TEST	TEST TYPE	UTS - L	TYS - L	EL 4B-Long
TEST NUMBER	UTS	KSI	KSI	PCT
21397829	4	44.8	46.9	41.7
		46.9	43.8	19.6
				20.1

*[Signature]*

### Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.  
Yield strength has been determined by the 0.2% offset method.  
All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per ReHS, with the exception of 6062 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Marked in the USA or Other Qualified Countries as Defined by DEARS 225.872.1  
Made in USA

# THYSSENKRUPP MATERIALS NA

P.O./Ref 20295

Certificate of Mill Test Results

DART AEROSPACE  
ALUMINUM PLAT BAR 6061-T6511  
1.00" x 2.00" x 144.0000"  
PART NO.

BL PEC-829158-003

26Jun13  
Pg 1/1

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
172591	6

BILL TO	INVOICE NUMBER	ITEM NUMBER	DATE OF SHIPMENT
ThyssenKrupp Materials NA	185864	MRB0477	4/1/2013
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALES PERSON
ThyssenKrupp Materials NA, Toronto	PEC-247086	6061-T6511	David Schroeder
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION	
2.056 lbs 72 pcs	MRB0477	MCRB 1.000x2.000	

CERTIFICATION  
ASTM-B221-12a StencilCont  
SPECIFICATION  
AMS-QQA-200/8 - 1997

*[Signature]*  
1/30/28

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
5	201305462	3/21/13	min 47.00 max 50.50	min 46.70 max 49.60	min 14.40 max 18.60

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
											Each	Total	
C07H0702	6061	0.70	0.28	0.32	0.10	0.92	0.10	0.01	0.02	97.55	0.05	0.15	United States of America
C07H0703	6061	0.68	0.28	0.31	0.10	0.88	0.09	0.01	0.01	97.64	0.05	0.15	United States of America

Print Date: 4/1/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 32/7/9

# THYSSENKRUPP MATERIALS NA

PO/Rel 20295

## Certificate of Mill Test Results

BL PBC-829158-004

DART AEROSPACE  
ALUMINUM FLAT BAR 6061-T6511  
1.00" x 4.00" x 144.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*

26Jun13  
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

### MILL TEST REPORT

BILL TO	THYSSENKRUPP MATERIALS NA	Part Code:	1	0.51	DIE NUMBER	S	4657	DATE OF SHIPMENT	3/21/2013	EXTRUDEX ORDER NO.	155110 - 6	MANIFEST NO.	284769
SHIP TO	THYSSENKRUPP MATERIALS NA	CUSTOMER PO	PEC-246198		ALLOY	6061	TEMPER	T6511	SALESMAN	FORBES DODWELL			
SO DESCRIPTION	1"x4" FB	CUSTOMER PART NUMBER	1-1000-4000		PART DESCRIPTION								
CERTIFICATION MILL TEST ASTM B221-12													

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/20/13	42.6	38.5	13.90	87.9, 88.5, 88.2	<i>per 13-de-28</i>

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 20028 6061	0.56	0.22	0.19	0.06	0.83	0.04	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*[Signature]*

David Natale  
Quality Control Manager

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: *[Signature]*

**DART AEROSPACE**  
ALUMINUM PLAT BAR 6061-T6511  
1.00" x 6.00" x 144.0000"  
PART NO.



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
173807	5

BILL TO

ThyssenKrupp Materials NA

MANIFEST NUMBER

187246

DIE NUMBER

MRB1826

DATE OF SHIPMENT

4/12/2013

CERTIFICATION

ASTM-B221-12a StencilCont

SHIP TO

ThyssenKrupp Materials NA, Toronto

CUSTOMER PO

PEC-247407

ALLOY/TEMPER

6061-T6511

SALESPERSON

David Schroeder

Quantity Certified 1,197 lbs 14 pcs

CUSTOMER PART NUMBER

MRB1826

DESCRIPTION

MCRB 1,000x6,000

SPECIFICATION  
AMS-QQA-200/8 - 1997

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

### Mechanical Properties

Tests Lot No.

4 201306967

4/11/13

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
4/11/13	min 48.30 max 50.80	min 46.40 max 49.20	min 15.20 max 17.90

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
0313147	6061	0.74	0.38	0.31	0.10	0.90	0.11	0.07	0.02	97.37	0.05	0.15	United States of America
0313150	6061	0.76	0.35	0.32	0.10	0.86	0.11	0.07	0.02	97.41	0.05	0.15	United States of America

Print Date: 4/12/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 8/2/11 - UMS

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511  
1.250" x 5.00" x 144.0000"  
PART NO. OFFERING

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PBC-829158-006

265mm13  
Pg 1/1

## Certificate of Mill Test Results



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
177359	3

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 712 lbs 8 pcs

MANIFEST NUMBER

191676

CUSTOMER PO

PEC-248697

CUSTOMER PART NUMBER

MRB1589

DIE NUMBER

MRB1589

ALLOY/TEMPER

6061-T6511

DESCRIPTION

MCRB 1.250x5.000

DATE OF SHIPMENT

5/30/2013

SALESPERSON

David Schroeder

CERTIFICATION

ASTM-B221-12a StencilCont

SPECIFICATION

AMS-QQA-2008 - 1997

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

#### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201310704	5/24/13	min 46.80 max 48.40	min 45.00 max 46.90	min 16.20 max 17.25

#### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
0513072	6061	0.72	0.35	0.32	0.09	0.91	0.10	0.08	0.02	97.41	0.05	0.15	United States of America
1112155	6061	0.72	0.39	0.31	0.10	0.86	0.10	0.07	0.03	97.42	0.05	0.15	United States of America

Print Date: 5/30/2013

Calvin J. Wiggins, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

2.00" x 5.00" x 144.0000"

PART NO.

PO/Rel 20295

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-829158-007

26Jun13

Signed by: 

Pg 1/1

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-246395-6		CUSTOMER PART NUMBER: ALREC00850		PRODUCT DESCRIPTION: 2.000 X 5.000 SC RECT BAR	
KAISER ORDER NUMBER: 638613	LINE ITEM: 006	SHIP DATE: 03/05/2013	KAISER LOT NUMBER: Z00657003	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 847.000 LB	QUANTITY: 6.000 PCS	B/L NUMBER: 605678	DIAM/DA/FT/HKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00657003	0001	1	46.4	42.9	15.3	RE 94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102424	.74	.29	.29	.09	.93	.09	.05	.03	.00	.00	.00	.01	.04

### Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061  
(T6511 also conforms to T6-nct applicable to other tempers)

### Miscellaneous Notes

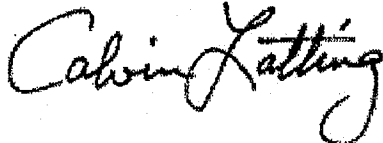
MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been  
inspected and tested and found in conformance with applicable specifications forming a part of the  
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on  
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager



Plant Serial: 00080410  
Kaiser Order Number: 638613  
Line Item: 006



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO20295

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 1 of 3

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**  
6/23/2013

Contact Name  
Vendor Phone 905 669 9444

Ship To Contact  
Ship To Phone  
Ship Via: Yours ppd  
Ship Acct:

Buyer Chantal Lavoie  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

**REVISED**

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
1	M6061T6B0.500X02.000  MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQA-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221	6061-T6 Bar .500 x 2.00	6/28/2013 Yes 6/28/2013		12.00 f				\$30.00
Line Total:									\$30.00
2	M6061T6B0.500X02.500  MATERIAL SPEC'S SAME AS ABOVE	6061-T6 Bar .500 x 2.50	6/28/2013 Yes 6/28/2013		12.00 f				\$36.00
Line Total:									\$36.00
3	M6061T6B1.000X02.000  MATERIAL SPEC'S SAME AS ABOVE	6061-T6 Bar 1.00 x 2.00	6/28/2013 Yes 6/28/2013		24.00 f				\$110.40

6/23/2013

Note:

6/25/2013





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 2 of 3

**Order From :**

VC-COP001

**Ship To :** DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905 669 9444

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Line Total: \$110.40**

4	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	6/28/2013	24.00	✓	\$214.80
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE		6/28/2013			

**Line Total: \$214.80**

5	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	6/28/2013	12.00	✓	\$173.04
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE		6/28/2013			

**Line Total: \$173.04**

6	M6061T6B1.250X04.500	6061-T6 Bar 1.25 X 4.50	6/28/2013	24.00	✓	\$334.40
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE NOTE: 1.250" X 5.000" ACCEPTABLE		6/28/2013			

43/6/13

**Line Total: \$334.40**

**Note:**

6/25/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 3 of 3

**Order From :**

VC-COP001

**Ship To :** DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905 669 9444

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

7	M6061T6B2.000X04.500	6061T6 Bar 2.00 x 4.500	6/28/2013	12.00		\$308.57
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE NOTE: 2.000" X 5.000" ACCEPTABLE		6/28/2013			

✓  
14 3/8/24

**Line Total:** \$308.57

8	M6061T6S.080	6061-T6 .080 Sheet	6/28/2013	336.00		\$1,017.72
			Yes	sf		
	MATERIAL: 6061 T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025/AMS 4027 OR ASTM B209		6/28/2013			

**Line Total:** \$1,017.72

9	M6061T6S.040	6061-T6 .040 Sheet	7/5/2013	384.00		\$588.00
			Yes	sf		
	MATERIAL SPEC'S SAME AS ABOVE		7/5/2013			

**Line Total:** \$588.00

**PO Total:** \$2,812.93

**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent

Certificate of Conformity or Material Certification required ☒ YES ☐ NO

**Change Nbr:** 2

**Change Date:** 6/25/2013